

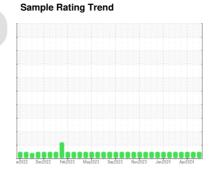
# **OIL ANALYSIS REPORT**



# **MONTGOMERY MACK 929110**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)







### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

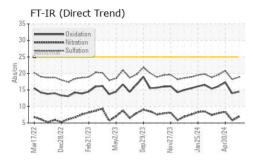
### **Fluid Condition**

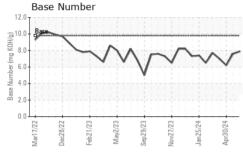
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

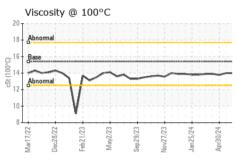
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127230	GFL0088005	GFL0118443
Sample Date		Client Info		21 Jun 2024	20 May 2024	30 Apr 2024
Machine Age	hrs	Client Info		9459	13197	13044
Oil Age	hrs	Client Info		9459	13197	13044
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	6	13
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	0	4
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	58	62	63
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	945	949	963
Calcium	ppm	ASTM D5185m	1070	1011	1010	1125
Phosphorus	ppm	ASTM D5185m	1150	982	1067	1029
Zinc	ppm	ASTM D5185m	1270	1220	1210	1276
Sulfur	ppm	ASTM D5185m	2060	3178	3342	3019
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	6	5	6
Sodium	ppm	ASTM D5185m		5	3	6
Potassium	ppm	ASTM D5185m	>20	3	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.4
N 124 42	Abs/cm	*ASTM D7624	>20	6.9	5.8	8.4
Nitration			00	18.9	18.2	20.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	10.5	10.2	20.0
		*ASTM D7415 method	limit/base	current	history1	history2
Sulfation						



## **OIL ANALYSIS REPORT**



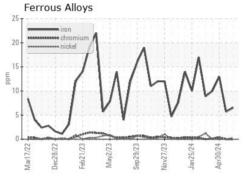


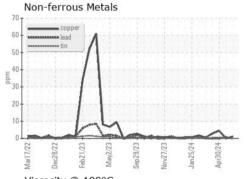


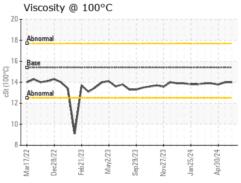
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

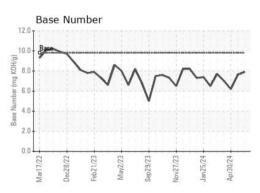
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	13.78	

### **GRAPHS**













Laboratory Sample No.

: GFL0127230 Lab Number : 06220848 Unique Number : 11099045

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

**Tested** : 27 Jun 2024 Diagnosed : 27 Jun 2024 - Wes Davis

GFL Environmental - 955 - Montgomery 1121 Wilbanks St

Montgomery, AL US 36108

Contact: LISA REEVES

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL955 [WUSCAR] 06220848 (Generated: 06/27/2024 12:04:47) Rev: 1

Submitted By: Lisa Goldman

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